

**CLAIMS:**

1. A combination, comprising:

- an article of manufacture; and
- a fluorescent protein and/or a bioluminescence generating system, whereby the combination is a novelty item selected from among toys, fountains, personal care items, fairy dust, foods, textile products, bubbles, balloons, personal items, dentifrices, soaps, body paints, and bubble bath, and paper products.

2. The combination of claim 1, wherein the article of manufacture is selected from among squirt guns, pellet guns, finger paints, foot bags, slimy play material, clothing, bubble making toys, bath powders, body lotions, gels, body powders, body creams, toothpastes, greeting cards, mouthwashes, soaps, body paints, cosmetics, bubble baths; inks, wrapping paper, ice, dry ice and fountains.

3. The combination of claim 1, wherein the combination comprises a luciferase.

4. The combination of claim 1, wherein the combination comprises a luciferin.

5. The combination of claim 1, wherein the combination further comprises a luciferin and a luciferase.

6. The combination of claim 1 that is a toy gun.

7. The combination of claim 1 that is a fountain.

8. The combination of claim 1, that produces water fireworks.

9. The combination of claim 1 that is a bubble making toy.

10. The combination of claim 1 that is a cosmetic.

11. The combination of claim 1, comprising a delivery vehicle that comprises least one component of the bioluminescence generating system.

12. The combination of claim 11, wherein a component is a luciferase.

13. The combination of claim 11, wherein a component is a luciferin.

14. The combination of claim 11, wherein the components comprise a luciferin and a luciferase.

5 15. The combination of claim 11, wherein the vehicle is a liposome.

16. The combination of claim 11, wherein the vehicle is a gelatin capsule.

17. The combination of claim 11, wherein the vehicle comprises 10 micronized particles of the component(s).

18. The combination of claim 11, wherein the vehicle is a time release vehicle.

19. The combination of claim 11, wherein the vehicle is water soluble.

15 20. The combination of claim 11, wherein the fluorescent protein is a green fluorescent protein, a blue fluroescent protein or a phycobiliprotein.

21. The a combination of claim 1, selected from among cosmetics body lotion, body cream, body paint, bubble compositions, fountains and 20 toys.

22. The combination of claim 1 that is fairy dust.

23. The combination of claim 1 that is an item of clothing.

24. The combination of claim 1, wherein a component of the bioluminescence generating system is selected from among an insect 25 system, a coelenterate system, a ctenophore system, a bacterial system, a mollusk system, a crustacea system, a fish system, an annelid system, and an earthworm system.

25. The combination of claim 1, wherein a component of the bioluminescence generating system is selected from among *Aequorea*, 30 *Vargula*, *Renilla*, *Obelin*, *Porichthys*, *Aristostomias*, *Odontosyllis*, *Oplophorus*, *Gaussia* firefly and bacterial systems.

26. The combination of claim 1, wherein a component of the bioluminescence generating system is selected *Renilla Cavarnularia*, *Ptilosarcus*, *Stylatula*, *Acanthoptilum*, and *Parazoanthus* systems.

27. The combination of claim 1, wherein a component of the 5 bioluminescence generating system is selected from among *Chiroteuthis*, *Eucleoteuthis*, *Onychoteuthis*, *Wataseania*; cuttlefish, *Sepiolina*, *Oplophorus*, *Sergestes*, and *Gnathophausia*; *Argyropelecus*, *Yarella*, *Diaphus*, and *Neoscopelus* systems.

28. The combination of claim 1, wherein a component of the 10 bioluminescence generating system is selected from among *Aequorea*, *Vargula*, *Renilla*, *Obelin*, *Porichthys*, *Odontosyllis*, *Aristostomias*, *Oplophorus*, *Gaussia*, firefly, bacterial, *Mnemiopsis*, *Beroe* *Gonadostomias*, *Gaussia*, *Halisturia*, Vampire squid, *Glyphus*, Mycotophid, *Vinciguerria*, *Howella*, *Florenciella*, *Chaudiodus*, *Melanocostus* Sea Pens, 15 mollusc, mushroom, fish, insect, ctenophore and annelid systems.

29. A composition, comprising one or more components of a bioluminescence generating system, wherein at least one of the components is a luciferin or a luciferase and the concentration is between about 0.1 mg/l and 10 mg/l.

20 30. The composition of claim 29, formulated as spray, foam or aerosol comprising one or more components of a bioluminescence generating system.

31. The composition of claim 29, wherein the concentration is between about 1 mg/l and 5 mg/l.

25 32. A combination, comprising:  
an article of manufacture; and a fluorescent protein, whereby the combination is a novelty item.

33. The combination of claim 32, wherein the article of manufacture is selected from among toys, fountains, personal care items, 30 fairy dust, beverages, soft drinks, foods, textile products, bubbles,

balloons, personal items, dentifrices, soaps, body paints, and bubble bath, and paper products.

34. The combination of claim 32, wherein the article of manufacture is selected from among squirt guns, pellet guns, finger paints, foot bags, slimy play material, clothing, bubble making toys, bath powders, body lotions, gels, body powders, body creams, toothpastes, greeting cards, mouthwashes, soaps, body paints, cosmetics, bubble baths; inks, wrapping paper, ice, dry ice and fountains.

35. The combination of claim 32 that is a toy gun.

10 36. The combination of claim 32 that is a fountain.

37. The combination of claim 32, that produces water fireworks.

38. The combination of claim 32 that is a bubble making toy.

39. The combination of claim 32 that is a cosmetic.

40. The combination of claim 32, further comprising one or more

15 components of a bioluminescence generating system.

41. The combination of claim 32, wherein the fluorescent protein is encapsulated in a time-release vehicle.

42. The combination of claim 1, wherein the article of manufacture is an egg-shaped toy that comprises the bioluminescence generating system.

43. The combination of claim 1, wherein the article of manufacture is a footbag that comprises the bioluminescence generating system.

44. The combination of claim 1, comprising:  
25 a transgenic fish comprising heterologous nucleic acid encoding a luciferase, whereby the fish expresses the encoded luciferase; and fishfood comprising a luciferin, whereby upon ingestion of the luciferin the fish glows.

45. Fish food, comprising a luciferin or a luciferase.

30 46. The fish food of claim 45, wherein the luciferin or luciferase is lyophilized.

47. The combination of claim 32, wherein the article of manufacture is a toy or cosmetic.

48. The combination of claim 32, wherein the toy is a bubble-toy.

5 49. The combination of claim 47, further comprising one or more components of a bioluminescence generating system.

50. The combination of claim 32, wherein the fluorescent protein is selected from green fluorescent protein, blue fluorescent protein, and phycobiliprotein.

10 51. The combination of claim 32, wherein the article of manufacture is a transgenic corn that expresses a luciferase, luciferin or fluorescent protein.

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